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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Patent Application

Applicant: Sato et al.

Serial No. 09/581,468

Filed: June 12, 2000

For: MAGNETIC SENSOR,
MAGNETIC HEAD,
MAGNETIC ENCODER AND
HARD DISK DEVICE

Art Unit: 2653

Examiner: Blouin, Mark S.

I hereby certify that this paper is being deposited with the United States Postal Service as FIRST-CLASS mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on this date.

Date
F-CLASS.WCM

Appr. February 20, 1998

Registration No. 29367

Attorney for Applicant

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AMENDMENT A

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In response to the office action mailed August 14, 2002, please amend the application as follows:

In the Claims:

✓
Please cancel claim 10, without prejudice, and amend claims 1, 5, 6, 7 and 17

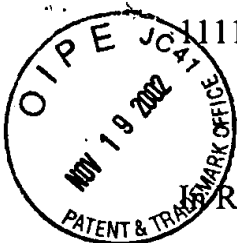
as follows:

1. (Amended) A magnetic sensor including a ferromagnetic tunnel junction, comprising:

2653

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) 14 Nov 02 [Signature]
) Date Registration No. 29367
) F-CLASS.WCM
) Appr. February 20, 1998 Attorney for Applicant

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Assistant Commissioner for Patents
Washington, D.C. 20231

AMENDMENT TRANSMITTAL

Sir:

Transmitted herewith is a communication regarding the above-identified application.

Fee Calculation For Claims As Amended

	As Amended	Previously Paid For	Present Extra	Rate	Additional Fee
Total Claims	30	30	0	\$18.00	\$
Independent Claims	2	3	0	\$84.00	\$
Fee for Multiple Dependent Claims				\$280.00	\$
Total Additional Fee					\$ 0.00

(X) Amendment A.

(X) If a Petition under 37 C.F.R. §1.136(a) for an extension of time for response is required to make the attached response timely and does not separately accompany this transmittal, Applicant(s) hereby petition(s) under 37 C.F.R. §1.136(a) for an extension of time for response in the above-identified application for the period required to make the attached response timely.

(X) The Commissioner is hereby authorized to charge any additional fees which may be required to this application under 37 C.F.R. §§1.16-1.17, or credit any overpayment, to Deposit Account No. 07-2069. A duplicate copy of this sheet is enclosed.

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(312) 360-0080

By: [Signature]
Patrick G. Burns, Reg. No. 29,367